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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,735	08/19/2003	Teruaki Uehara	OK1.565	3778
20987 VOLENTINE A	7590 02/13/2008 & WHITT PLLC		EXAMINER	
ONE FREEDO	M SQUARE		NGO, CHUONG D	
RESTON, VA	OM DRIVE SUITE 1260 20190		ART UNIT	PAPER NUMBER
•			2193	•
			MAIL DATE	DELIVERY MODE
			02/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

:	Application No.	Applicant(s)		
	10/642,735	UEHARA, TERUAKI		
Office Action Summary	Examiner	Art Unit		
	Chuong D. Ngo	2193		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was a failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status				
 1) ☐ Responsive to communication(s) filed on 28 No. 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro			
Disposition of Claims	•			
4) Claim(s) 1.3-6 and 21-25 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1.3-6 and 21-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction in the content of the conten	vn from consideration. r election requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

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DETAILED ACTION

1. Claims 1,3-6 and 21-25 are directed under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1,3-6 and 21-25 are directed to apparatus for merely performing manipulations and calculations of data values. In order for such a claimed invention that merely performs calculations and manipulations of data to be statutory, the claimed invention must accomplish a practical application, and is not directed to a preemption of a calculation and/or manipulation data. That is the claimed invention must transform an article or physical object to a different state or thing, or produce a useful, concrete and tangible result and not cover every substantial practical application . See State Street 47 USPQ2d, Benson 175 USPQ, and "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility", OG Notices: 22 November 2005.. It is clear from claims 1,3-6 and 21-25 that the claims merely involve calculations and manipulations of data. The claimed invention does not transform an article or physical object to a different state or thing. The inputs are numerical values and the output is also a numerical value. The result produced by the inventions do not have a real world value but merely numerical values without a practical application recited in the claims to make the result useful, concrete and tangible. Therefore, claims 1,3-6 and 21-25 are directed to nonstatutory subject matter as the claimed invention fails to accomplish a practical application. Further, since the claims appear to cover every substantial practical application, they are also directed to a preemption of the claimed manipulation and calculation of data.

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2. Claims 21 and 23 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Getzlaff et al (5,754,875).

Getzlaff et al discloses in figure 2 an arithmetic unit including a memory (250) having a plurality blocks (252,253) for storing data, an arithmetic logic unit (10), a register (14,15) for temporarily storing data read from the memory, and a combining circuit (the node after ALU) for replacing a part (either 282 or 283) of the data from the register with the output (17) from the arithmetic logic and generating output data (285) as claimed.

3. Claims 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Getzlaff et al (5,754,875).

It is noted that Getzlaff et al does not specifically teach the arithmetic unit including a shifter and an accumulator as claimed. However, including elements in an arithmetic unit are so well known in the art. A person of ordinary skill in the art would have found it obvious to do so in order to increase flexibility of the arithmetic unit in performing difference functions and to maintain logic level of the output signal, respectively.

4. Applicant's arguments filed 11/28/2007 have been fully considered but they are not persuasive.

Regarding the rejection under 35 USC 101, applicant correctly asserted that the first step in determining whether a claim is directed to statutory subject matter under 35 U.S.C. 101 is to identify whether the claim falls within one of the four enumerated categories of patentable subject matter recited in section 101 (process, machine, manufacture or composition of matter).

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However, when the claim fall within, rather than does not fall within as applicant asserted, one of the four enumerated categories of patentable subject matter, the analysis then proceeds to the steps of considering Judicial Exceptions, Practical Application, and Preemption. Thus, the claims are properly rejected under 35 USC 101 as set for in the rejection above.

Regarding the rejections under 35 USC 102(b) and 103(a), it is respectfully submitted that in the rejection the combined of elements 282 and 283 is viewed a the claimed register, and ORA and OAB are parts of the data temporality stored in the register. Thus, combining the resultant data word outputted by the ALU (10) with the data word from ORA is to replace the part ORB of the data from the register (282,283) with the output (17) from the arithmetic logic and generating output data (285), or combining the resultant data word outputted by the ALU (10) with the data word from ORB is to replace the part ORA of the data from the register with the output (17) from the arithmetic logic and generating output data (285) as claimed.

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chuong D Ngo/ Primary Examiner, Art Unit 2193

02/12/2008